

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643169

Luminaire Tested: GWS-SA6E-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35606.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

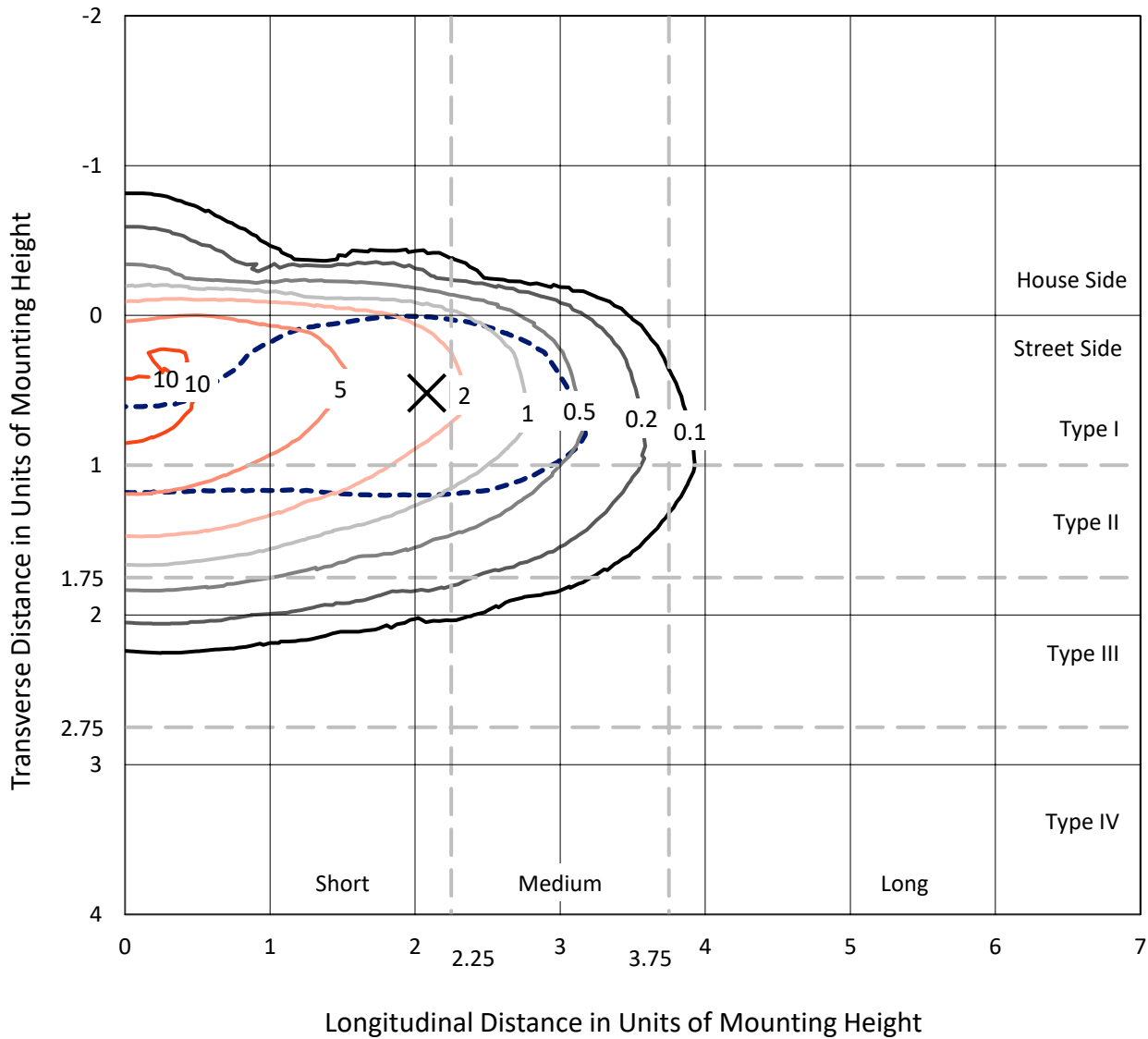
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

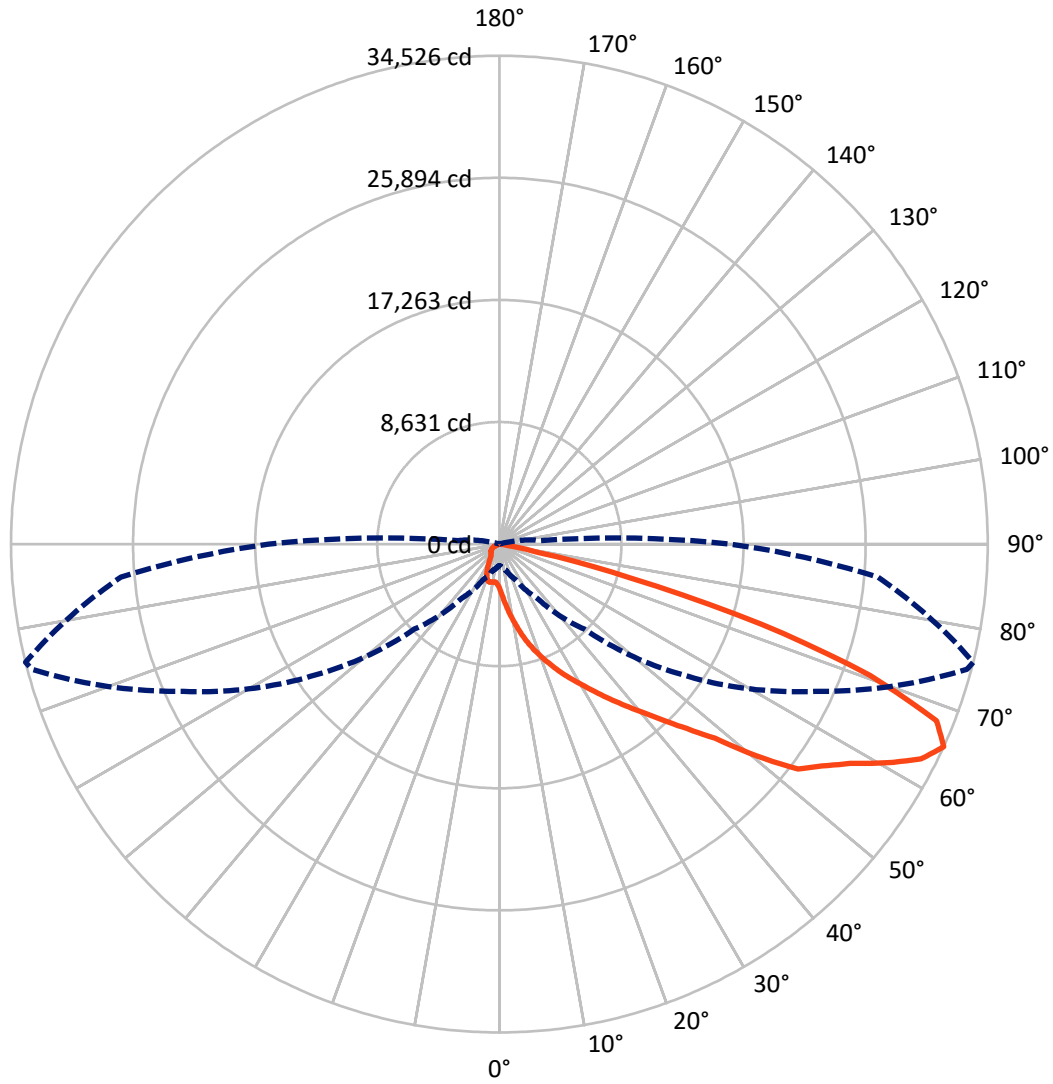
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.8	0.0	1968.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	33638.1	0.0	33638.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	35606.9	0.0	35606.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	1.1
10°-20°	1455.2	4.1
20°-30°	2968.9	8.3
30°-40°	5280.4	14.8
40°-50°	7805.6	21.9
50°-60°	8936.8	25.1
60°-70°	6818.4	19.1
70°-80°	1910.0	5.4
80°-90°	48.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35606.9	100.0
0°-180°	35606.9	100.0

Coefficient of Utilization

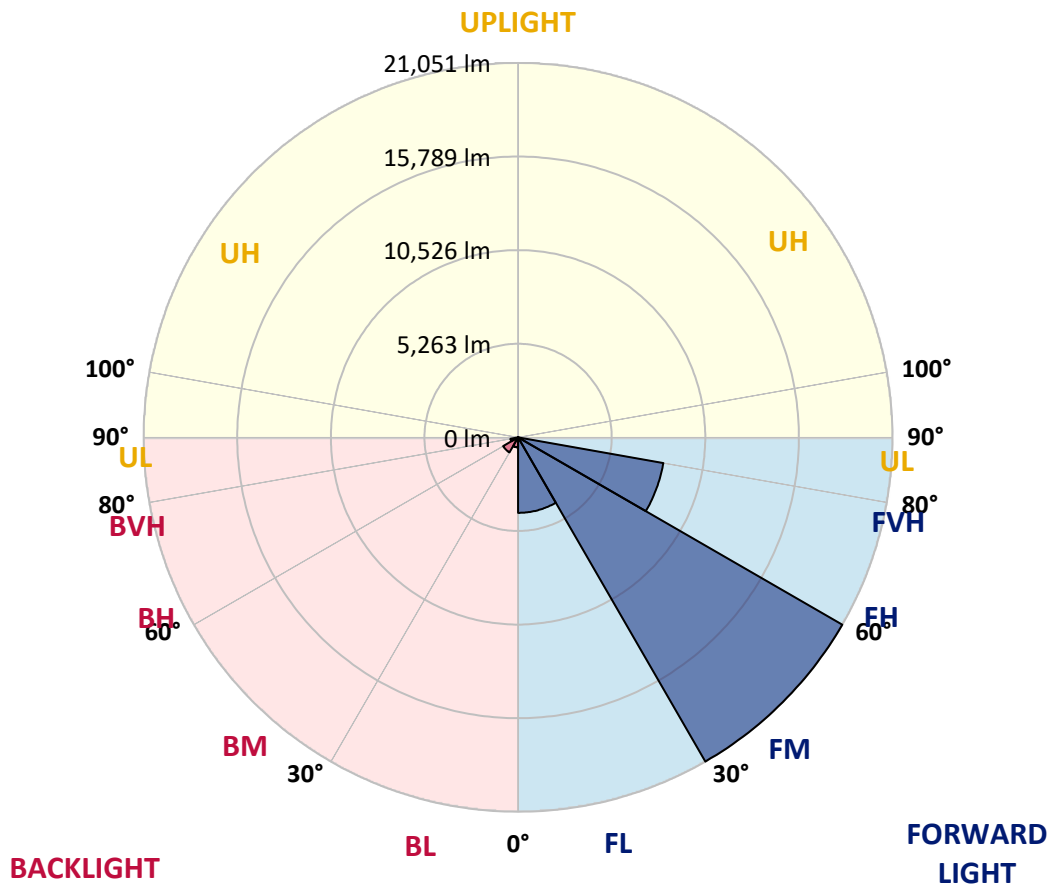


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4245.9	11.9			
FM (30°-60°)	21051.4	59.1			
FH (60°-80°)	8295.5	23.3			G4/12000
FVH (80°-90°)	45.3	0.1			G1/100
BL (0°-30°)	561.8	1.6	B2/1000		
BM (30°-60°)	971.4	2.7	B1/1000		
BH (60°-80°)	432.8	1.2	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5
2.5°	4858.5	4931.3	4874.4	4779.4	4595.8	4418.6	4190.7	3877.3	3627.3	3595.6	3361.4
5°	6561.4	6555.1	6431.6	6308.2	6115.1	5811.3	5352.3	4769.9	4209.7	4162.2	3636.8
7.5°	7574.3	7583.7	7514.1	7419.2	7229.2	6915.9	6438.0	5735.3	4915.5	4820.6	4013.4
10°	8425.7	8422.5	8371.9	8327.6	8156.6	7947.7	7435.0	6662.7	5675.1	5526.4	4434.4
12.5°	9065.0	9087.2	9112.5	9156.8	9084.0	8878.3	8394.0	7552.1	6444.3	6279.7	4915.5
15°	9571.5	9577.8	9672.8	9843.7	9903.8	9796.2	9356.2	8413.0	7203.9	7061.5	5469.4
17.5°	9723.4	9736.1	9897.5	10210.8	10527.4	10587.5	10255.2	9280.3	7950.9	7799.0	6007.5
20°	10043.1	10071.6	10191.8	10467.2	10866.0	11188.9	11059.1	10157.0	8697.9	8498.5	6558.2
22.5°	11049.6	11065.4	11024.3	11059.1	11264.8	11638.3	11717.5	11005.3	9463.9	9251.8	7153.3
25°	12781.0	12787.3	12499.3	12227.1	12072.0	12141.6	12315.7	11787.1	10223.5	10014.6	7707.2
27.5°	14578.8	14600.9	14255.9	13793.8	13239.9	12923.4	12872.7	12502.4	10989.5	10758.4	8254.8
30°	16272.1	16272.1	15908.1	15344.7	14604.1	13986.9	13622.9	13224.1	11809.2	11556.0	8815.0
32.5°	17794.6	17781.9	17316.6	16705.8	15974.6	15297.3	14531.3	13977.4	12720.8	12439.1	9460.7
35°	19051.2	19019.5	18490.9	17905.4	17123.6	16620.3	15765.7	14787.7	13708.4	13426.7	10125.4
37.5°	20000.7	19965.9	19481.6	18861.2	18136.4	17810.4	17095.1	15759.4	14749.7	14493.3	10862.9
40°	20516.6	20447.0	20111.5	19649.4	19041.7	18756.8	18459.3	16965.3	15974.6	15654.9	11733.3
42.5°	20668.6	20586.3	20364.7	20149.5	19782.3	19557.6	19877.3	18326.3	17319.8	17044.4	12727.1
45°	20219.1	20171.6	20152.6	20307.7	20374.2	20437.5	21225.6	19833.0	18804.3	18595.4	13977.4
47.5°	19136.6	19124.0	19291.7	19937.4	20640.1	21307.9	22691.1	21690.9	20728.7	20504.0	15724.6
50°	17136.2	17266.0	17734.4	18867.6	20272.9	21801.7	24061.6	24267.4	23843.2	23514.0	18003.5
52.5°	14009.0	14259.1	15309.9	17031.8	19051.2	21662.4	24694.7	26331.0	26764.7	26422.8	19636.7
55°	10992.6	11226.9	12163.7	14347.7	17041.3	20602.1	24723.1	27043.2	27989.6	27673.1	20741.4
57.5°	8188.3	8403.5	9255.0	11344.0	14306.6	18516.2	24045.8	27438.9	29442.4	29239.8	22485.4
60°	5352.3	5564.4	6333.5	8159.8	11097.1	15477.7	22377.8	27356.6	31420.6	31401.7	24628.2
62.5°	2968.9	3136.7	3693.8	5118.1	7745.2	11986.5	19757.0	26530.5	33335.6	33455.8	26394.4
65°	1519.3	1626.9	1965.6	2813.8	4687.6	8498.5	16310.1	24637.7	34221.8	34525.7	26859.6
67.5°	993.9	1028.7	1111.0	1462.3	2510.0	5346.0	12274.5	21602.3	32974.7	33329.2	25299.2
70°	807.1	835.6	883.1	974.9	1294.6	2839.2	8061.7	17253.3	27552.8	27793.4	20146.3
72.5°	591.9	629.9	721.7	781.8	933.7	1557.3	4193.9	11325.0	18921.4	19345.5	12660.7
75°	436.8	458.9	534.9	617.2	762.8	984.4	1604.7	5953.7	9770.9	9524.0	5317.5
77.5°	262.7	278.5	341.8	395.6	544.4	614.0	560.2	2199.8	2972.1	2794.8	1285.1
80°	129.8	145.6	224.7	297.5	348.2	246.9	234.2	614.0	661.5	661.5	322.8
82.5°	44.3	57.0	120.3	196.2	170.9	95.0	110.8	158.3	177.2	186.7	95.0
85°	0.0	0.0	28.5	57.0	25.3	12.7	28.5	34.8	44.3	47.5	31.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.5	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5
2.5°	3234.8	3086.0	2861.3	2658.7	2503.6	2358.1	2247.3	2158.6	2142.8	2092.2	2098.5
5°	3380.4	3111.4	2696.7	2377.0	2152.3	2000.4	1873.8	1778.8	1737.7	1696.5	1664.9
7.5°	3605.1	3215.8	2633.4	2244.1	1981.4	1747.2	1550.9	1392.7	1316.7	1269.2	1237.6
10°	3880.5	3361.4	2636.6	2165.0	1775.7	1418.0	1149.0	974.9	892.6	867.3	864.1
12.5°	4209.7	3545.0	2661.9	2035.2	1478.1	1054.0	851.4	772.3	747.0	724.8	724.8
15°	4557.8	3750.7	2661.9	1797.8	1126.8	822.9	737.5	686.8	655.2	642.5	636.2
17.5°	4925.0	3943.8	2598.6	1471.8	864.1	724.8	655.2	607.7	582.4	563.4	557.1
20°	5317.5	4127.4	2440.3	1126.8	740.6	648.9	582.4	534.9	509.6	490.6	490.6
22.5°	5716.3	4298.3	2184.0	867.3	655.2	576.1	512.8	468.4	443.1	424.1	424.1
25°	6086.6	4412.2	1854.8	715.3	591.9	512.8	455.8	411.5	383.0	370.3	364.0
27.5°	6431.6	4485.0	1490.8	629.9	531.7	458.9	398.8	357.7	335.5	326.0	319.7
30°	6789.3	4504.0	1139.5	572.9	481.1	405.1	348.2	316.5	297.5	284.9	284.9
32.5°	7137.5	4481.9	870.4	525.4	436.8	357.7	310.2	281.7	265.9	256.4	253.2
35°	7492.0	4380.6	705.8	484.3	392.5	313.4	275.4	253.2	243.7	231.1	231.1
37.5°	7878.1	4244.5	614.0	443.1	348.2	281.7	246.9	231.1	218.4	208.9	205.7
40°	8359.2	4086.2	563.4	408.3	307.0	253.2	221.6	205.7	196.2	186.7	183.6
42.5°	8928.9	3931.1	538.1	370.3	275.4	224.7	199.4	180.4	170.9	158.3	155.1
45°	9736.1	3896.3	509.6	329.2	246.9	202.6	174.1	155.1	142.4	132.9	129.8
47.5°	11033.8	3994.4	462.1	284.9	218.4	177.2	148.8	132.9	117.1	107.6	101.3
50°	12322.0	3969.1	414.6	246.9	193.1	151.9	126.6	110.8	95.0	85.5	82.3
52.5°	13024.7	3848.8	370.3	218.4	167.8	129.8	107.6	88.6	79.1	69.6	66.5
55°	13660.9	3801.4	326.0	189.9	142.4	113.9	88.6	72.8	66.5	57.0	53.8
57.5°	14908.0	3912.2	288.0	164.6	123.4	98.1	76.0	60.1	53.8	44.3	41.1
60°	16212.0	3924.8	246.9	142.4	107.6	82.3	60.1	47.5	41.1	31.7	28.5
62.5°	16892.5	3605.1	202.6	120.3	88.6	69.6	50.6	38.0	31.7	19.0	19.0
65°	16322.8	2915.1	170.9	98.1	69.6	53.8	38.0	28.5	19.0	9.5	3.2
67.5°	14445.8	2073.2	142.4	79.1	50.6	38.0	28.5	19.0	3.2	0.0	0.0
70°	10578.0	1183.8	110.8	57.0	38.0	25.3	19.0	9.5	0.0	0.0	0.0
72.5°	6501.3	633.0	82.3	38.0	28.5	19.0	15.8	6.3	0.0	0.0	0.0
75°	2465.7	303.9	50.6	25.3	22.2	15.8	9.5	3.2	0.0	0.0	0.0
77.5°	667.9	148.8	28.5	19.0	15.8	9.5	6.3	0.0	0.0	0.0	0.0
80°	174.1	69.6	19.0	12.7	9.5	6.3	0.0	0.0	0.0	0.0	0.0
82.5°	60.1	31.7	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
85°	25.3	12.7	6.3	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)